

ISO SC4/WG10 AP Modularization Workshop

Orlando January 31, 1998



WG10 AP Modularization Process

- Florence WG10 one day workshop
 - Several presentations on concepts
 - Based on similarity and resources, decided to proceed via PDES, Inc. team developing approach
 - Guidelines and sample modules were produced
- Two interim WG10 three day workshops
 - Review approach and guidelines
 - Gain consensus and generate issues
- Orlando WG10 one day workshop
 - Based on progress, build development plans



Original Interim Workshop Objectives

- Review draft of new Application Module Development Guidelines
- Review draft of updated Application Protocol Development using Modules Guidelines
- Walk through and review several draft Application Modules for content, scope and form
- Develop develop a coordinated plan of action for the participants to agree on a set of AMs and sample AM-based APs in preparation for follow-on work in evolving the current STEP standard into a modular set of capabilities.



Interim Workshop Agendas

- Day 1
 - Welcome, Introductions, set detailed agenda
 - Review AM Approach and Guidelines
- Day 2
 - Open discussion and presentations
 - AM samples walkthrough, approach, framework
- Day 3
 - Review AP Approach and Guidelines
 - Review new issues and results
 - Next steps, action items, planning



London Workshop Review (1)

• Presentation/Discussion Agenda

- Day 1
 - D. Price Review Florence WG10 AM material and new guidelines proposal
- Day 2
 - R. Goult Issues against approach and guidelines
 - C. Vaughn/R. Barra Diagram of module clusters based on summary
 - T. Turner Shipbuilding Building Blocks
 - R. Barra PDES, Inc. modules approach
 - R. Barra Two sample modules
 - N. Swindells Possible modules from materials area



London Workshop Review (2)

- Day 3
 - C. Vaughn Module framework web demo based on IIM paper
 - J. Fowler Approach to Modularization
 - D. Price Florence WG10 AP using modules material
 - D. Price Next actions, Orlando planning. wrap-up

Results

- Good exchange of ideas
- Confirmation that modularization is necessary
- Issues Log
- Next actions



London Workshop Review (3)

Next Actions

- Move to some level of experimentation
 - Agree on one scope, have two groups develop modules to meet that scope, compare the results (PDES, Inc. and Shipbuilding)
 - Produce modules based on both the ARMed approach and the ARM-less approach and compare results (PDES, Inc., J. Fowler, R. Goult for EACM, N. Swindells)
- Produce Issues Log and Classify Issues (D. Price)



London Workshop Review (4)

• Next Actions continued

- Complete AP Development Guidelines 0.3 but do not update yet per workshop issues (D. Price)
- Publish web demo (C. Vaughn and J. Fowler)
- Framework/catalogue coordination (C. Vaughn)
- Prioritize and resolve issues (WG10 and workshops)



Gaithersburg Workshop Review (1)

• Presentation/Discussion Agenda

- Day 1
 - D. Price Review Florence WG10 AM material and new guidelines proposal
- Day 2
 - D. Price Continue review Florence WG10 AM material and new guidelines proposal
 - R. Barra PDES, Inc. modules approach
 - R. Barra One sample modules
 - D. Price Julian Fowler's London workshop presentation



Gaithersburg Workshop Review (2)

- Day 3
 - Agreement on consensus items
 - Review London next actions
 - Brainstorming possible alternative approaches
- Results
 - Confirmation that modularization is necessary
 - Issues addressed via experiment rather than debate
 - Development should continue parallel to SC4
 - Need for supporting organization parallel to SC4



Gaithersburg Workshop Review (3)

- Identified four areas for activity
 - Technical development
 - Framework/catalogue development
 - Methodology and guidelines development
 - New organizational structure/process development and control



Proposed Plan

- 2Q98: Experiment among the possible approaches and determine the best one
- 2Q98 : Document the approach and technical content of an AM and an AP using AMs
- 3Q98: Develop an AM scoping and integration support process for teams developing AMs and APs
 - Development and support of the AM catalogue
- 4Q98 :Develop AMs and APs using AMs



Potential Recommendations for AP development teams

- For any AP not yet through interpretation
 - · Adopt the AP modularization approach
- For any AP not yet in CD ballot cycle
 - Adopt the AP modularization approach in any known areas of overlap with existing or in development APs
- For any AP that has passed CD ballot, is DIS, FDIS or IS
 - Make a case by case determination on modularizing the technical contents for inclusion in the AM catalog



Potential Recommendations to SC4

- Accept AMs as a new type of ISO 10303 Part
 - or as the next generation of AIC
- Accept that APs may be published using the AP modularization approach
- Prepare for finalization of new Guidelines, new Methods, AMs and modularized APs
 - Best estimate is October 98